

Appl. No. 10/782,259
Reply to Final Office Action of December 14, 2006

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AMENDMENTS TO THE CLAIMS

This listing and version of the claims replace all prior listing and versions of the claims.

Listing of Claims:

1-5. (cancelled)

6. (Currently amended) A ~~sealant region for encapsulating at least one display device comprising one or more layers of material forming a pixel disposed over a first substrate, the sealant region comprising:~~

one or more layers of material disposed over a first substrate having a pixel within a display region:

a first material layer formed over the one or more layers of material, the first material layer extending from the display region to a sealant region~~the pixel~~, the first material layer comprising a plurality of substantially parallel openings formed therethrough, the parallel openings to expose~~exposing~~ a surface of the one or more layers of material~~the pixel~~; and

a predetermined sealant disposed to form~~formed~~ over the sealant region perpendicular to the openings ~~for~~and attaching a second substrate,

wherein the sealant is disposed over and contacts the first material layer and is disposed within the openings ~~to~~and contacts the exposed surface of the one or more layers of material~~pixel, the sealant~~for sealing the sealant region~~pixel~~ between the first and second substrates, and

wherein the sealant has substantially flat contact surfaces with the first material layer and the exposed surface of the one or more layers of material~~pixel~~.

7. (Currently Amended) The ~~sealant region~~ display device of claim 6 wherein the openings have a uniform width.

Appl. No. 10/782,259

Reply to Final Office Action of December 14, 2006

8. (Currently Amended) The ~~sealant region~~ display device of claim 6 wherein the first material layer is an organic polymer layer and the one or more layers of material ~~exposed surface of the pixel~~ comprises a passivation layer.

9-20. (Cancelled)

21. (Currently Amended) The ~~sealant region~~ display device of claim 6, wherein the first material layer is an organic polymer layer.

22. (Currently Amended) The ~~sealant region~~ display device of claim 6, wherein the one or more layers of material ~~exposed surface of the pixel~~ comprises a dielectric layer.

23.- 37. (Canceled)

38. (Previously presented) The display device of claim 6, wherein the sealant in the openings is balanced along a center axis of the sealant region.

39. (Previously presented) The display device of claim 6, wherein a width of the openings is narrower than a total width of the sealant region.

40 - 53 (Canceled)

54. (New) A display device, the display device comprising a display region and a sealant region, the sealant region having a width and surrounding the display region, comprising:

a first substrate having a first material layer formed over the display region and the sealant region of the first substrate, the first material layer covering at least one pixel within the display region;

a second material layer formed on the first material layer, the second material layer having a plurality of openings in the sealant region, each of the openings being substantially parallel to the width of the sealant region and exposing part of the first material layer;

a sealant disposed on the second material layer and within the openings to contact the exposed first material layer; and

Appl. No. 10/782,259

Reply to Final Office Action of December 14, 2006

a second substrate disposed on the sealant for attaching thereon.

55. (New) The display device of claim 54, wherein the first substrate comprises a device substrate.

56. (New) The display device of claim 54, wherein the second substrate comprises a shield substrate.

57. (New) The display device of claim 54, wherein the first material layer comprises a passivation layer.

58. (New) The display device of claim 54, wherein the first material layer comprises a dielectric layer.

59. (New) The display device of claim 54, wherein the second material layer comprises an organic polymer layer.

60. (New) The display device of claim 54, wherein the openings have a uniform width.

61. (New) The display device of claim 54, wherein a width of the openings is narrower than the width of the sealant region.

62. (New) The display device of claim 54, wherein the opening is balanced along a center axis of the sealant region.

63. (New) The display device of claim 54, wherein the opening has a saw-tooth form.

64. (New) The display device of claim 63, wherein the saw-tooth form is modified to avoid sharp angles.

65. (New) The display device of claim 54, wherein the opening has an interlaced form.

66. (New) The display device of claim 54, wherein the first substrate having a plurality of organic light emission pixel in the display region.